

**Faculty of Engineering and Technology**

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| **Computer Science Department** |

Comp438 – Mobile Application Development

Course Project

This is a group work**;** each group should consist of 3-4 members only. You are asked to implement a complete and functional Android application. Each group needs to select one of the following apps domain:

## App Domains:

1. A complete and functional hotel reservation systems.
2. A complete and functional Pharmacy system for customers and employees.
3. A complete and functional university student system, enabling students to exchange important information, course materials, chats, etc.

## Technical Specifications

Your app should apply the following Android features:

1. Each member should be responsible for developing 3-4 activities.
2. Should have a variety of layouts, such as Linear, constraint, and Relative layouts.
3. Should apply **Recycler Views** were possible.
4. Should apply **ListViews**.
5. Should have a large variety of UI Views, such as dynamic Spinners, buttons, TextViews, EditText, Switches, ScrolViews, Date and Time Pickers, Dialogues, etc.
6. Should apply threads whenever possible to ensure app responsiveness.
7. Should take advantage of local storage using shared preferences were possible.
8. Correct **Lifecycle** management.
9. Correct change of orientation management.
10. Centralized styling using **styles.xml**
11. Centralized strings for UI using **strings.xml**
12. Major part of your app should be reading/writing data to MySQL Database through REST Php services, using Volley.
13. Apply correct UI/UX design guidelines.
14. Each group member should have his/her own work in the project clearly identified.
15. **If any similarity in work is found, students will be directed to Disciplinary Committee (لجنة تأديبية**)
16. After you finish you project, you should upload it to **GitHub** and **send the URL to Ritaj**. Also provide a link to a 5-7 minutes video to your app. you can upload the video to your Google Drive for example, and send the link.